

EARTHQUAKES FELT IN THE UNITED STATES DURING
1923.

(Consult also Chart XIV in this issue.)

By EDGAR W. WOOLARD.

During the calendar year 1923, 76 separate earthquakes strong enough to be felt by the unaided senses were reported from different parts of the continental United States, as listed in the accompanying table and graphically represented (a dot for each *report*, not for each separate quake) on Chart XIV at the end of this issue of the REVIEW.

Earthquakes of reported intensity 5 or greater (adapted Rossi-Forel scale) occurred in Arkansas, October 28 and November 26; in California on January 22, May 4, July 23, 20, and 22, August 25, and November 5 and 28; in Oregon, January 11; in Tennessee, October 28; in Texas, March 7; in Utah, May 14; and in Wyoming, March 24. The Californian quake of January 22 was accompanied by considerable damage in some places; this disturbance was well recorded on numerous distant seismographs. The Californian quakes of July 23 and October 5 also caused some damage in places; the remainder of the tremors reported produced little or no destruction. Widespread, but in general faint, shocks occurred on October 28 in Alabama, Arkansas, Illinois, Kentucky, Mississippi, and Missouri; on November 26 in Tennessee and Arkansas; and in the early hours of the year 1924 (Greenwich time) in Mississippi, South Carolina, Tennessee, Kentucky, Illinois, and Arkansas.

An earthquake of marked intensity occurred under the Pacific Ocean on February 4, severing the cable between Guam and the Midway Islands and causing destructive seawaves in Hilo Harbor, Hawaii. No other important quakes occurred in our outlying possessions during 1923.

Places in the United States reporting earthquakes during 1923.

(Consult also Chart XIV in this issue.)

Place.	Approximate latitude N.	Approximate longitude W.	Number of quakes reported.
ARIZONA.			
Gisela.....	34 10	111 00	1
Pine.....	34 20	111 25	1
Roosevelt.....	33 40	111 00	1
Payson.....	34 10	111 00	1
Yuma.....	32 40	114 35	2
ALABAMA.			
Riverton.....	34 55	88 05	1
ARKANSAS.			
Arkansas City.....	33 50	91 05	1
Brinkley.....	34 55	91 05	1
Corning.....	36 35	90 30	1
Eureka Springs.....	36 30	93 50	1
Helena.....	34 30	90 30	1
Jonesboro.....	35 55	90 35	1
Little Rock.....	34 40	92 05	1
Marianna.....	34 45	90 40	1
Marked Tree.....	35 30	90 25	2
Oscella.....	35 45	90 00	1
Stuttgart.....	34 30	91 30	1
Wilson.....	35 37	90 00	1
Wynne.....	35 15	90 45	2
CALIFORNIA.			
Alton.....	40 30	120 40	1
Arrowheat Springs.....	34 20	117 15	2
Avalon.....	33 15	118 15	1
Balboa.....	33 50	117 50	1
Barrett.....	32 30	116 45	1
Brawley.....	32 59	116 40	2
Calexico.....	32 41	115 30	7
Campitosville.....	39 30	121 00	1
Cederville.....	41 30	120 05	1
Chico.....	39 45	121 50	1
Chula Vista.....	32 30	117 10	2
Cholame.....	35 35	120 10	1
Claremont.....	37 48	122 26	1
Cloverdale.....	38 45	123 00	1
Compton.....	33 55	118 15	2
Calipatria.....	33 08	115 30	1
Dyerville.....	40 20	124 00	1
Eisnore.....	33 37	117 15	1

Places in the United States reporting earthquakes during 1923—Con.

(Consult also Chart XIV in this issue.)

Place.	Approximate latitude N.	Approximate longitude W.	Number of quakes reported.
CALIFORNIA—continued.			
Eureka.....	40 48	124 10	5
Fairmont.....	34 45	118 30	1
Ferndale.....	40 30	124 20	1
Fontana.....	33 05	116 30	1
Fort Bragg.....	39 30	123 50	1
Fort Ross.....	38 30	123 15	1
Highlands.....	34 10	117 15	1
Julian.....	33 05	116 37	1
Lakeport.....	39 03	122 56	2
Llano.....	34 30	117 47	1
Lodi.....	40 40	124 15	1
Long Beach.....	33 45	118 15	1
Los Alamos.....	34 45	120 15	1
Los Angeles.....	34 03	118 15	2
Los Gatos.....	37 12	121 58	1
McCloud.....	41 15	122 10	1
Mt. Wilson.....	34 13	118 16	1
Nevada City.....	39 15	121 00	2
Ojai.....	34 25	119 12	1
Orland.....	39 45	122 15	1
Oxnard.....	34 15	119 15	1
Pasadena.....	34 05	118 10	1
Pepperwood.....	40 30	124 00	1
Petrolia.....	40 15	124 20	1
Pomona.....	34 05	117 45	1
Red Bluff.....	40 10	122 15	1
Redding.....	40 35	122 25	1
Rialto.....	34 05	117 30	1
Salinas.....	36 41	121 39	1
San Bernardino.....	34 05	117 15	2
San Diego.....	32 43	117 10	4
San Luis Obispo.....	35 13	120 45	1
Santa Maria.....	38 30	122 45	3
Santa Rosa.....	40 30	124 05	1
Scotia.....	34 15	118 10	1
Sierra Madre.....	36 38	121 36	1
Spreckels.....	40 30	120 40	1
Susanville.....	35 45	117 20	1
Toms.....	33 45	117 50	1
Tustin.....	40 15	124 15	4
Upper Mattole.....	33 15	117 00	2
Valley Center.....	34 03	118 15	1
Willows.....	33 50	117 45	2
Yorba Linda.....	37 00	89 05	4
Greenville.....	38 50	89 20	1
KENTUCKY.			
Calhoun.....	36 34	89 12	1
Hickman.....	37 00	89 05	2
Wickliffe.....			
MISSISSIPPI.			
Corinth.....	35 00	88 25	1
Wyattte.....	34 35	89 45	1
MONTANA.			
Helena.....	46 40	112 00	3
MISSOURI.			
Poplar Bluff.....	36 50	90 25	1
NEW JERSEY.			
Ventnor.....	39 30	74 25	1
NEW MEXICO.			
Columbus.....	32 00	107 40	1
OREGON.			
Lakeview.....	42 10	120 20	1
Valley Falls.....	42 20	120 20	1
SOUTH CAROLINA.			
Charleston.....	32 45	80 00	2
Due West.....	34 15	82 30	1
Summerville.....	33 05	80 15	1
TENNESSEE.			
Memphis.....	35 10	90 00	2
Savannah.....	35 15	88 15	1
TEXAS.			
Sierra Blanca.....	31 10	105 25	1
El Paso.....	31 45	105 30	1
UTAH.			
Nada.....	38 10	113 15	1
Richmond.....	41 55	112 10	1
WASHINGTON.			
Angouries.....	48 30	122 40	1
Marietta.....	48 50	122 40	1
Olga.....	48 40	122 50	1
Silverton.....	48 05	121 40	1
Arlington.....	48 10	122 10	2
WYOMING.			
Bighorn.....	44 40	107 00	1
Elk.....	43 50	110 30	1
Kelly.....	43 20	110 40	1
Kenall.....	43 10	110 00	1
South Pass City.....	43 30	108 50	1